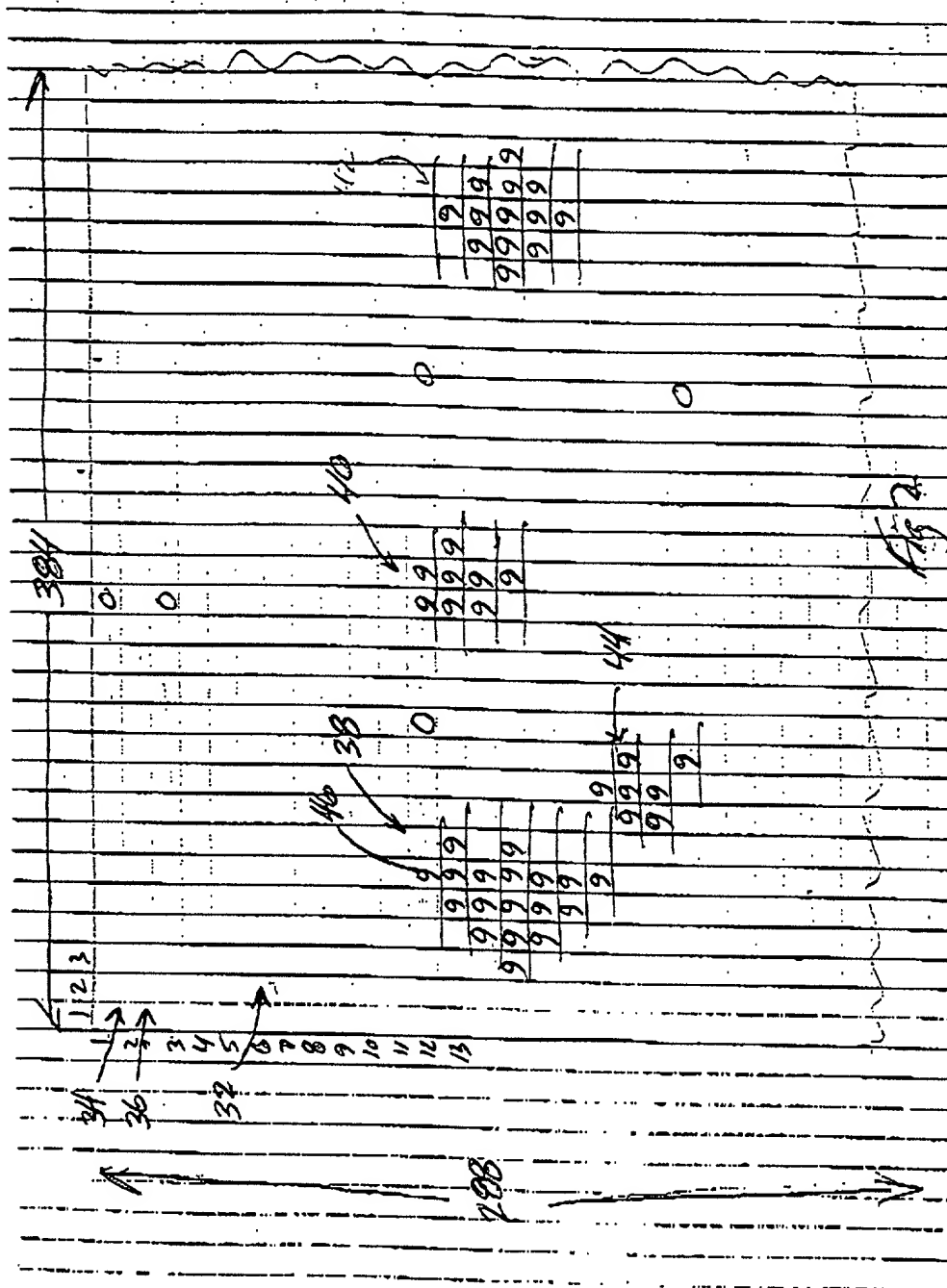


FIG. 1



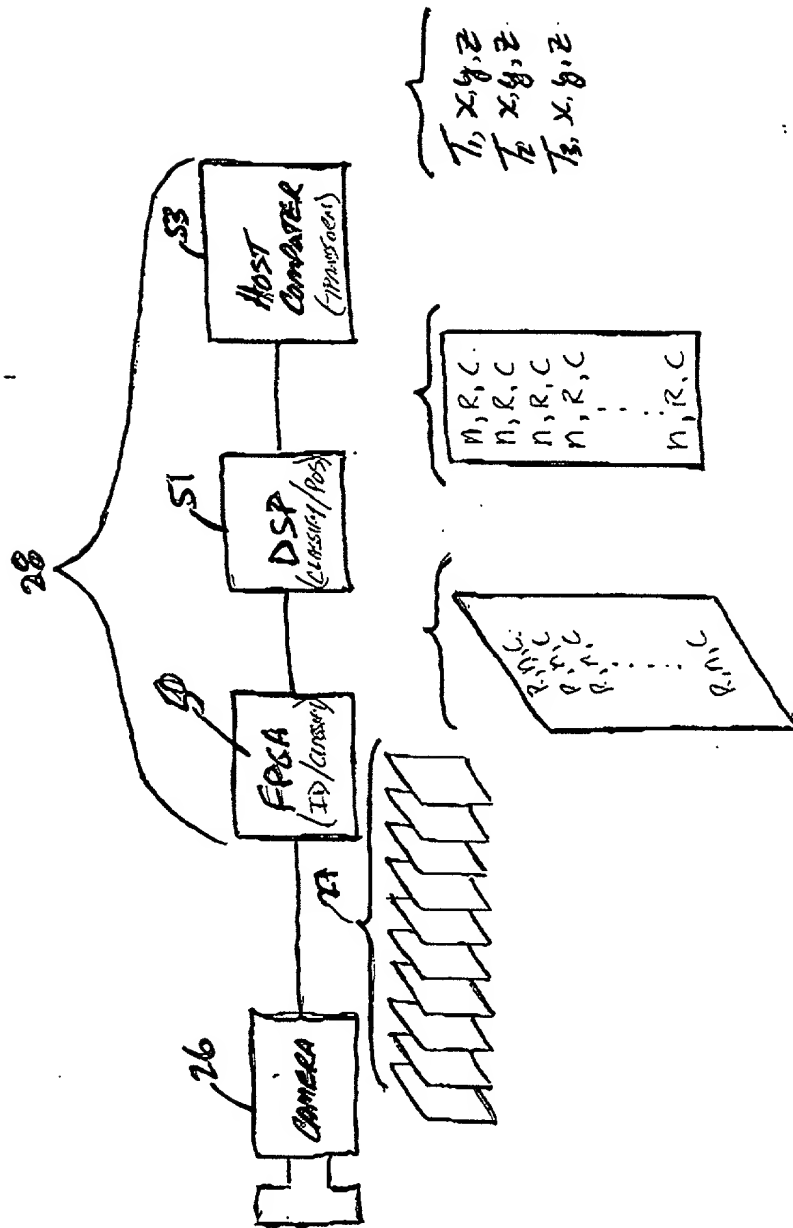
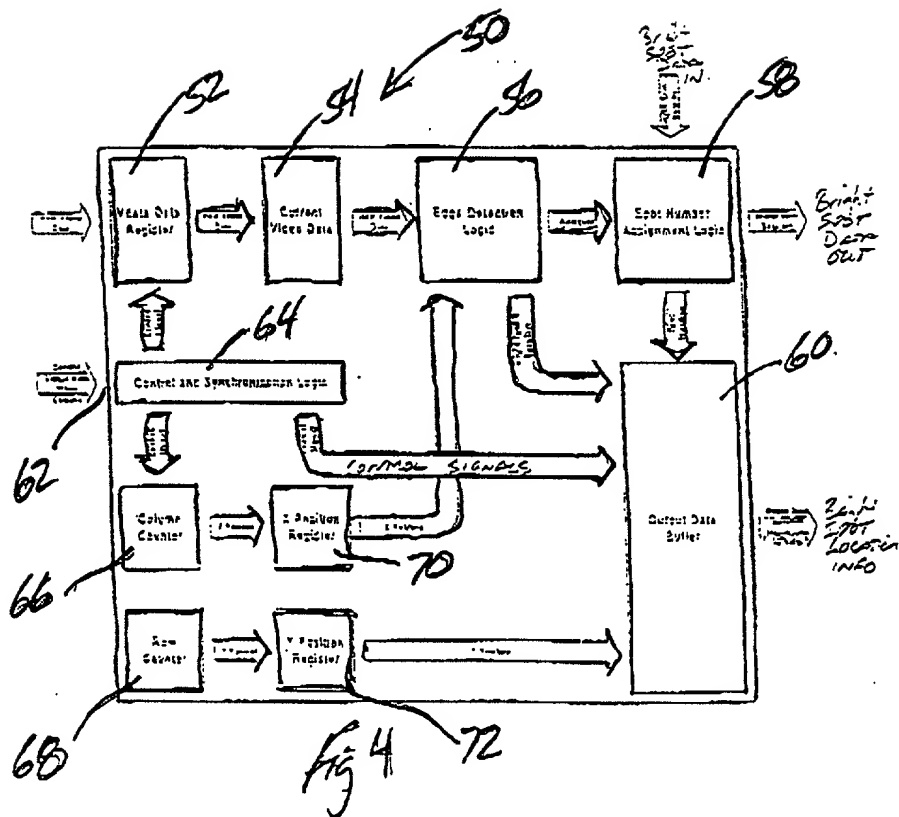
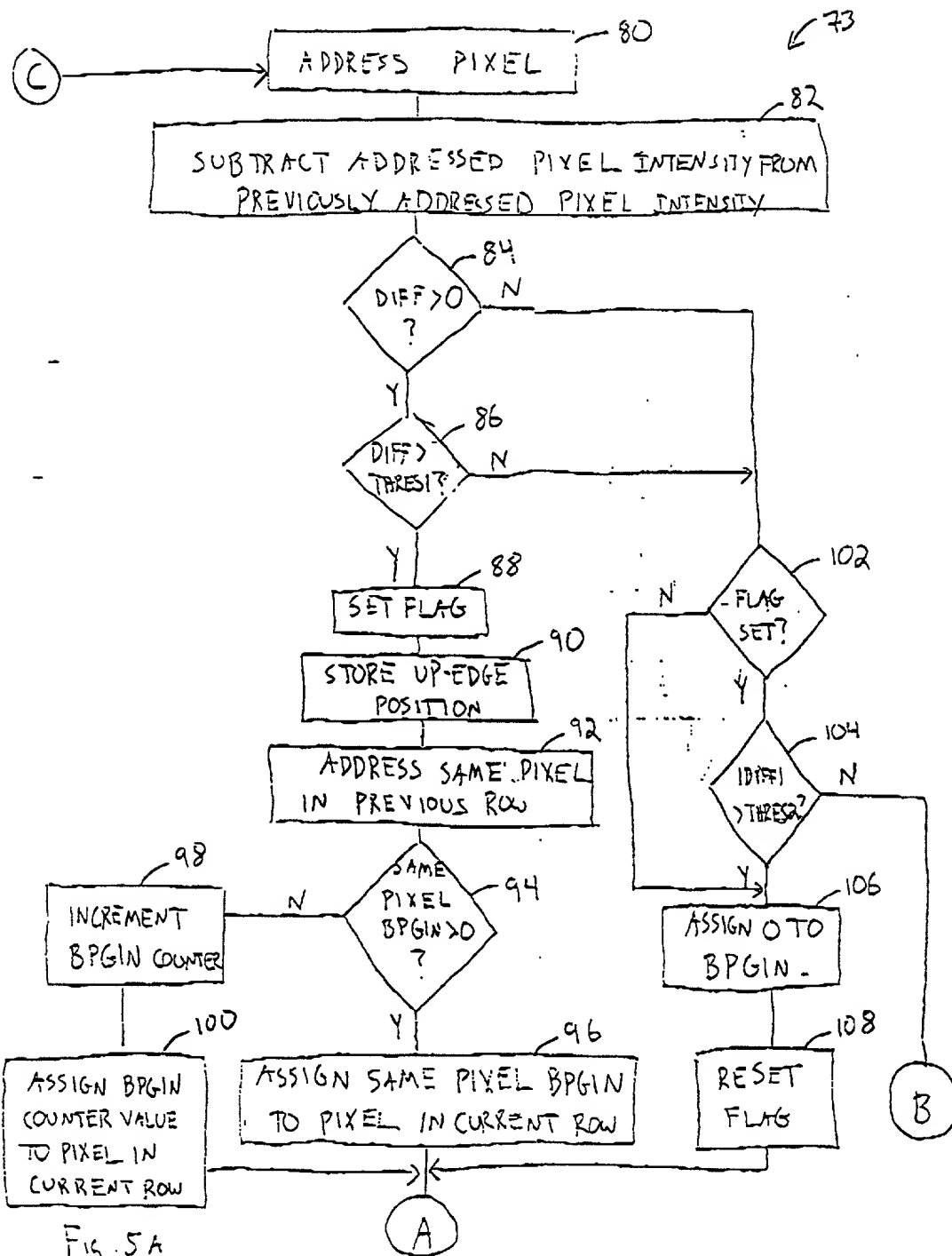


Fig 3





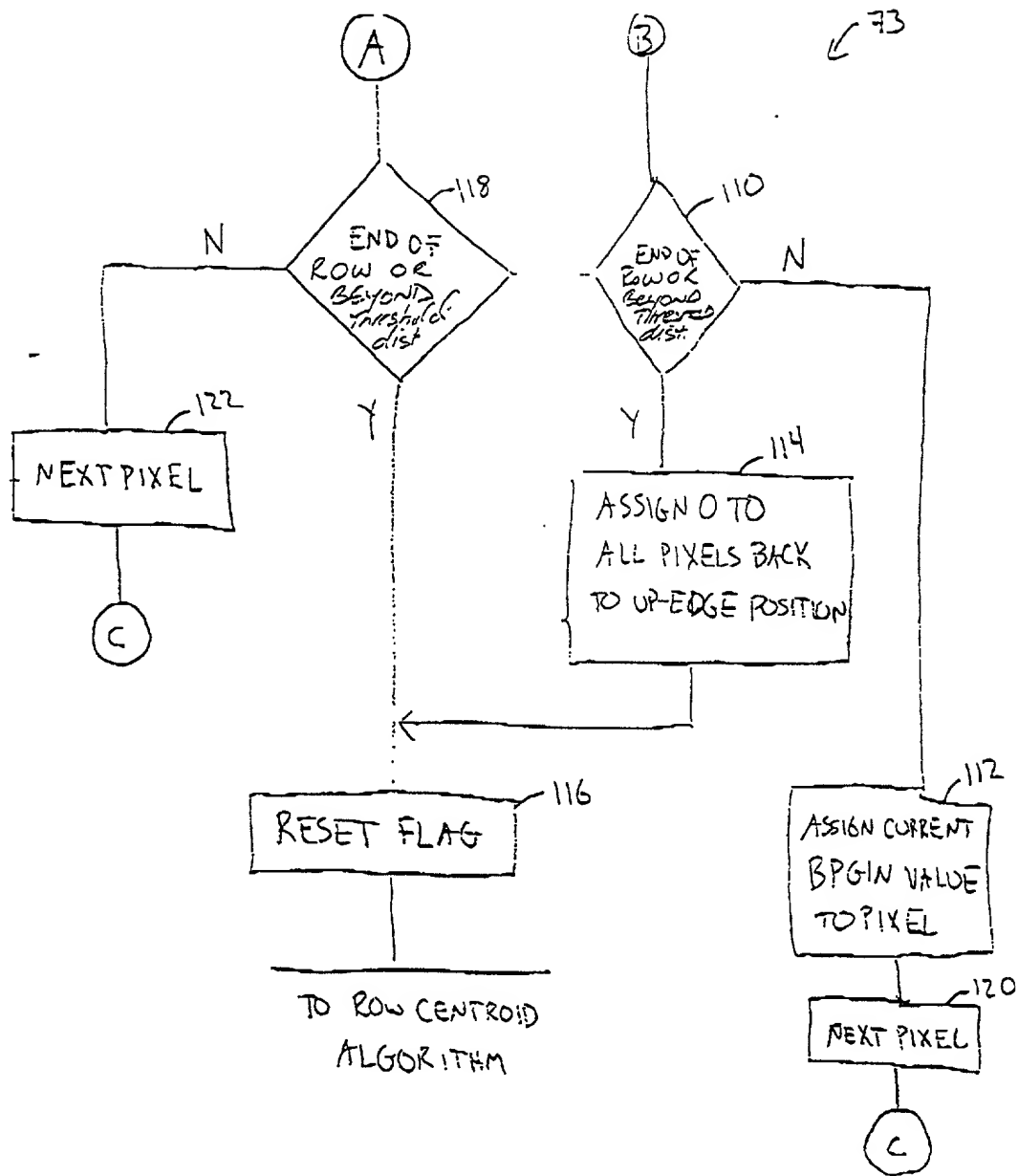
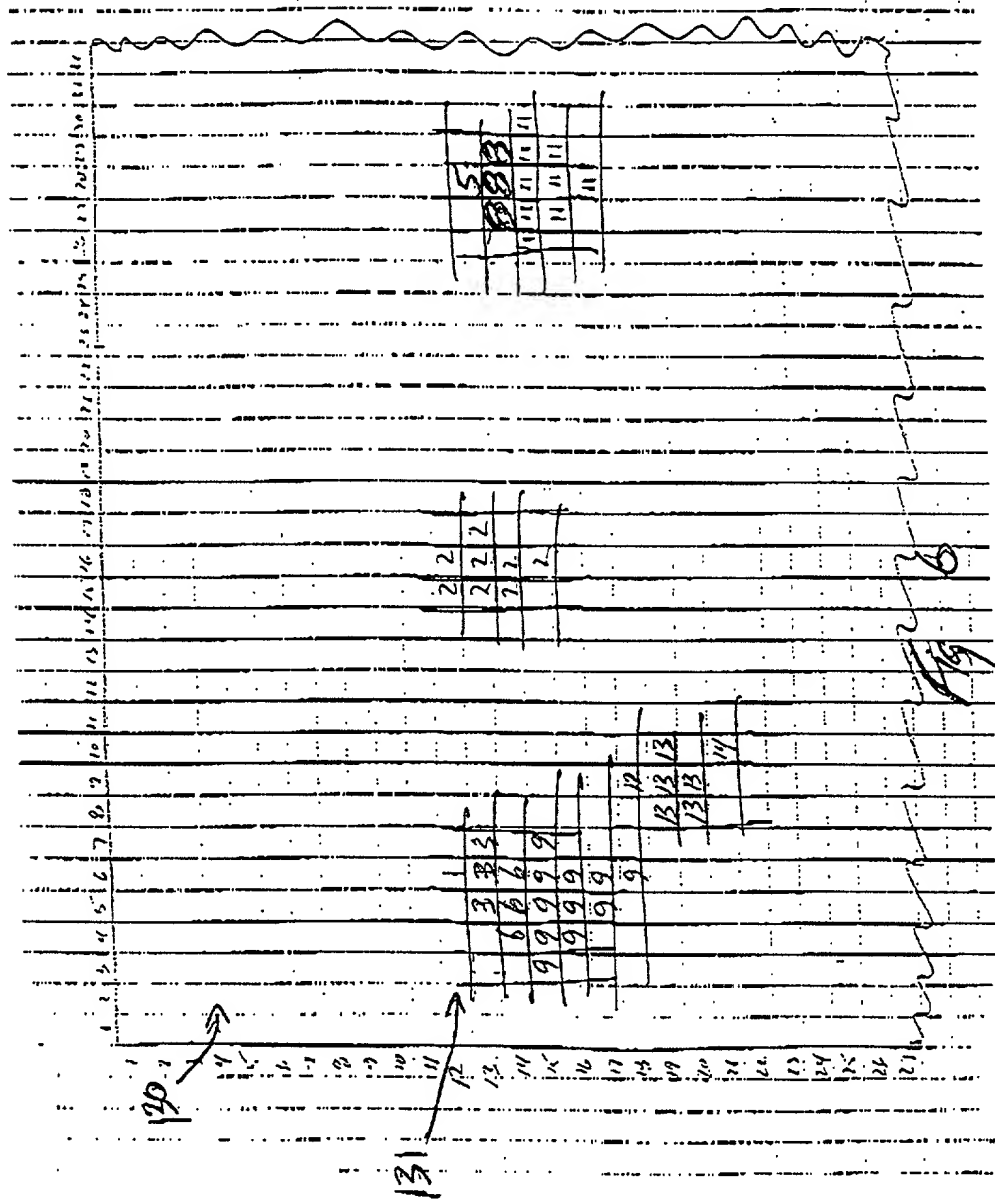
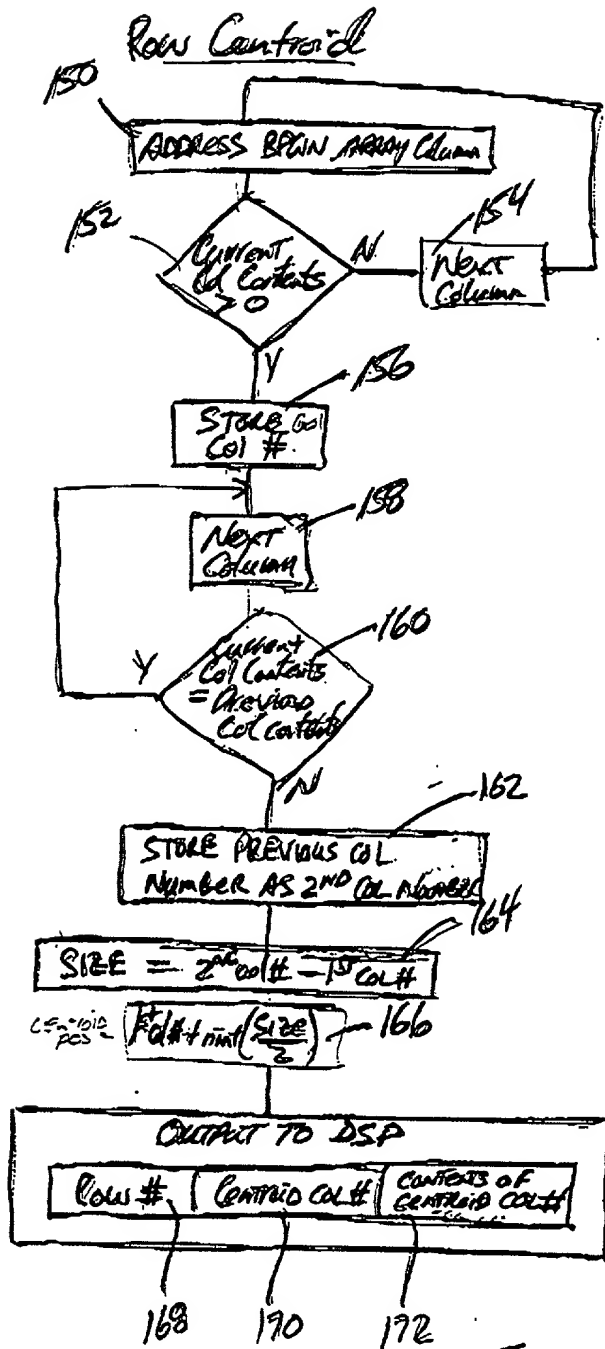


Fig 5B



FPGA

149



Let
the
flow
control
array

Fig 7

Output from Fig 7.

Row	Col	No
12	6	1
12	15	2
13	6	3
13	16	2
13	28	5
14	5	6
14	15	2
14	28	8
15	5	9
15	16	2
15	28	11
16	5	9
16	28	11
17	5	9
17	28	11
18	6	9
18	9	12
19	9	13
20	8	13
21	10	14

Bright Pixel Row Centroid Array

↙ 133

Fig. 8

Bright Pixel Graping Algorithm

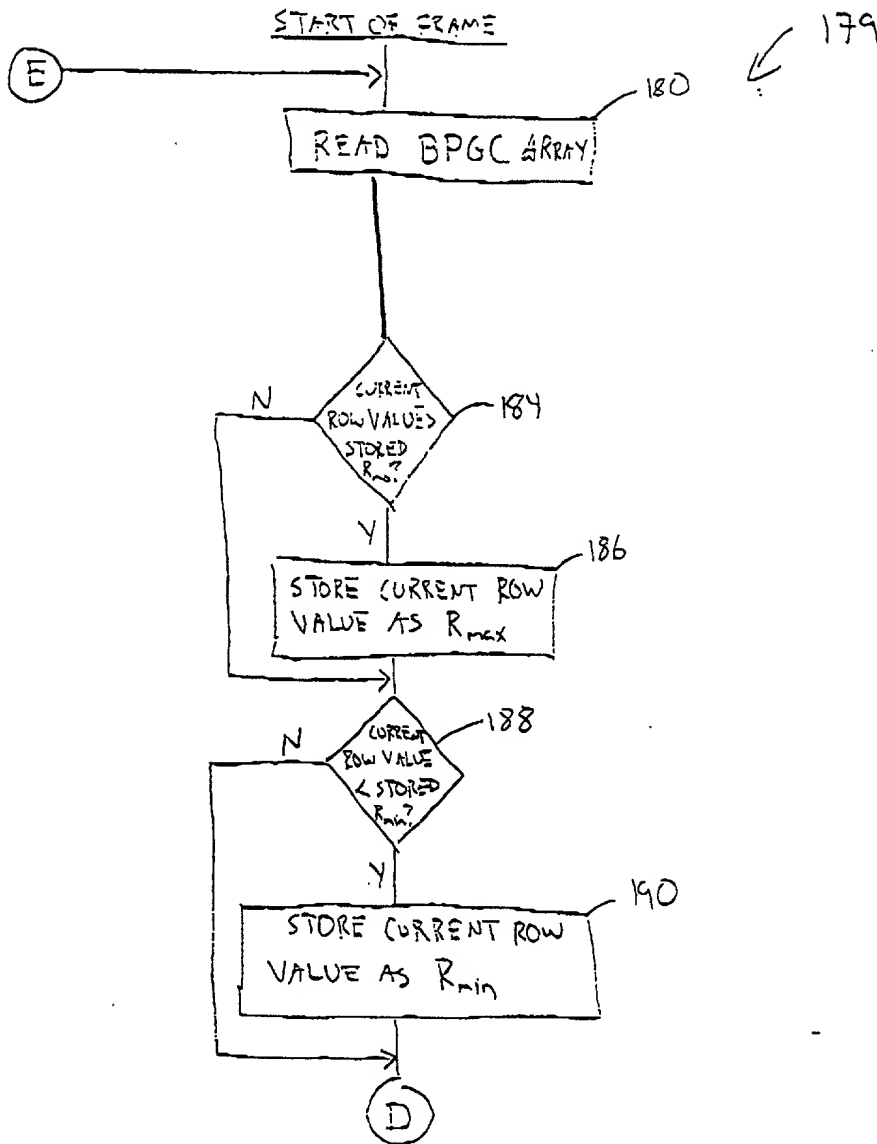


Fig 9A

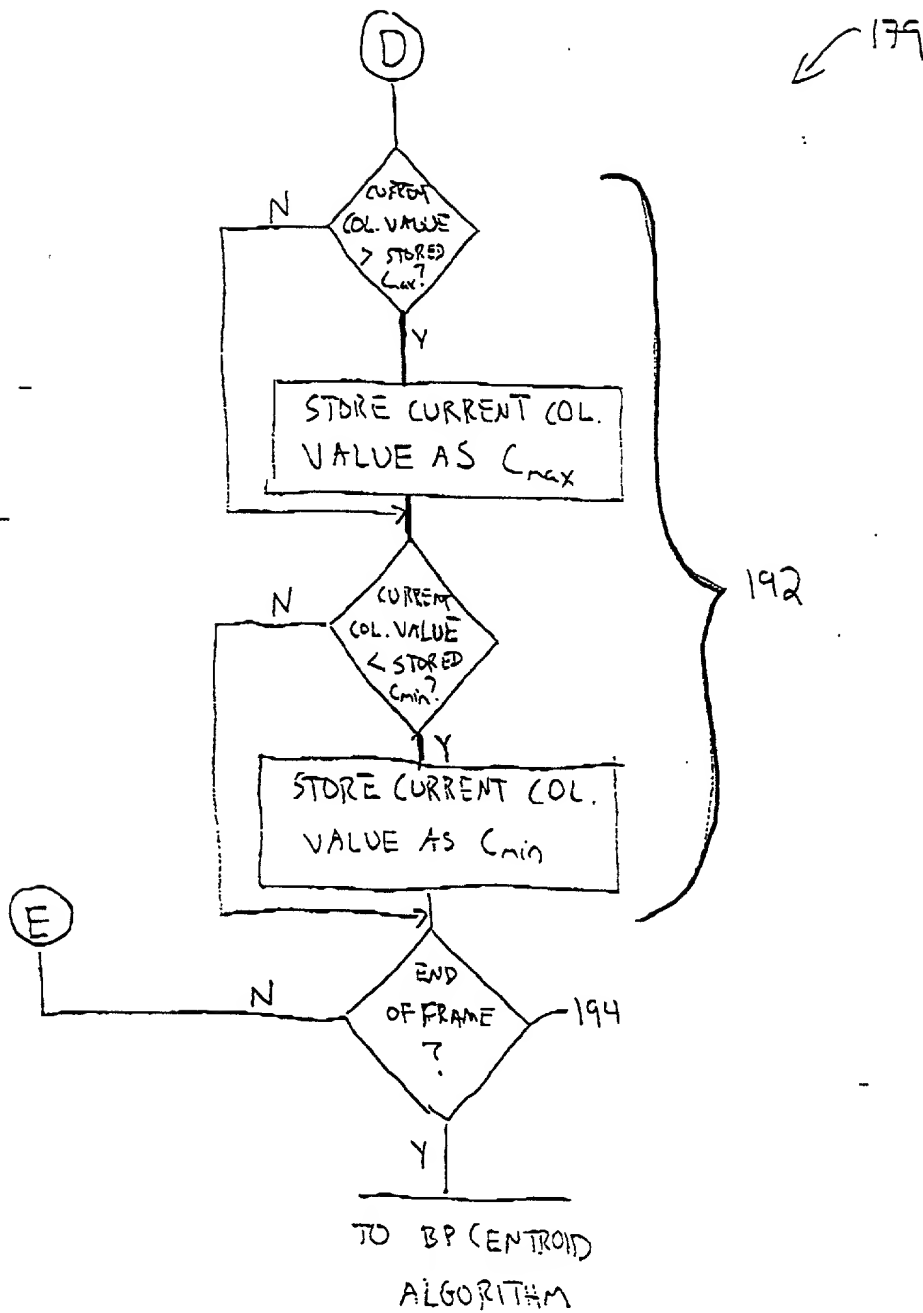


Fig. 9B.

BPG Range Array

Output From Fig. 9

BPGIN	Row		Col	
	MIN	MAX	MIN	MAX
1	12	12	6	6
2	12	15	15	16
3	13	13	6	6

← 300

5 13, 13, 28, 28

6 14, 14, 5, 5

8 14, 14, 28, 28

9 15, 18, 5, 6

11 15, 17, 28, 28

12 18, 18, 9, 9

13 19, 20, 8, 9

14 21, 21, 10, 10

Fig. 10

DS2

BPG Centroid Algorithm

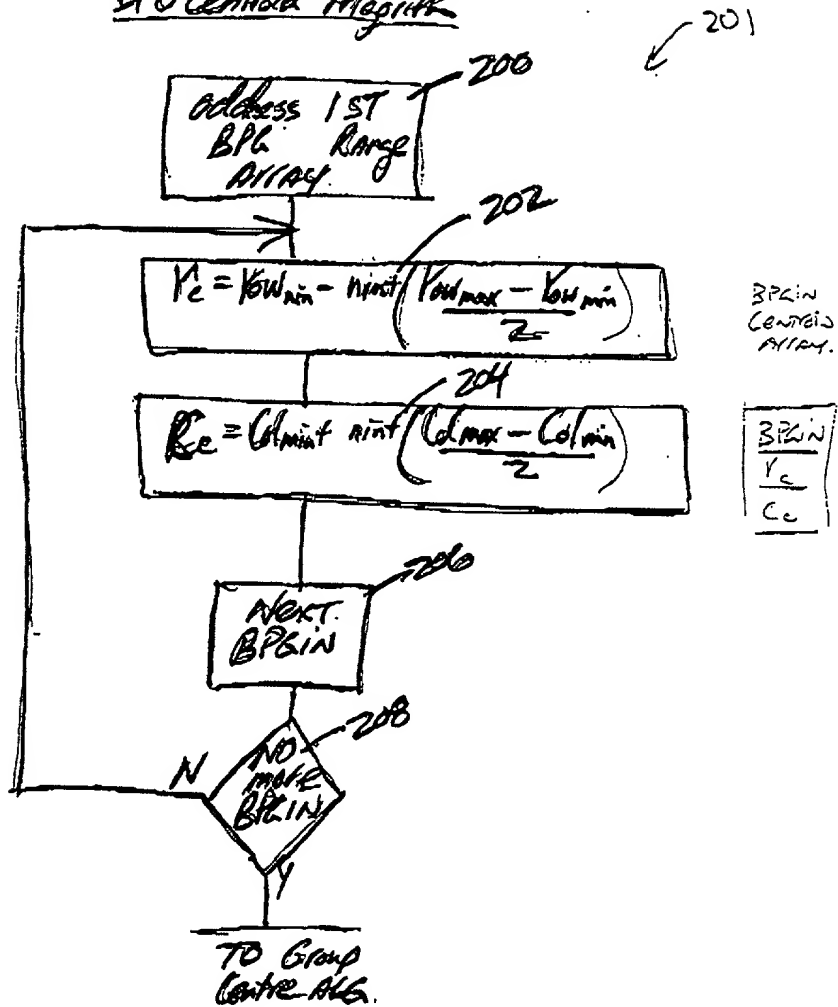


Fig 11

210 OUTPUT FROM FIG 11
 BPG CENTROID ARRAY

1 12, 6 1 ← 211

2 13, 15 2

3 13, 6 1

5 13, 28 5

6 14, 5 1

8 14, 28 5

9 16, 5 1

11 16, 28 5

12 18, 9 1

13 19, 8 1

14 21, 10 1

Fig. 12

DSP

Group Centre Algorithm 219

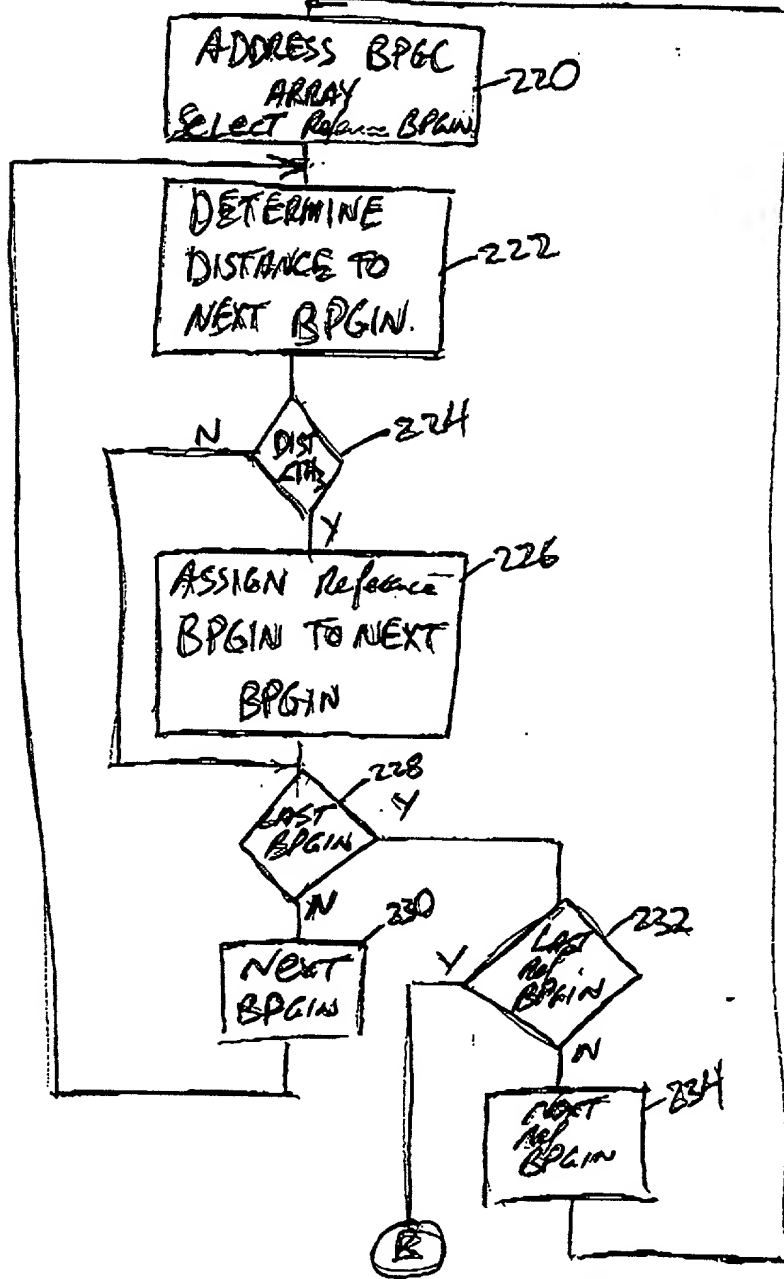


Fig 13A.

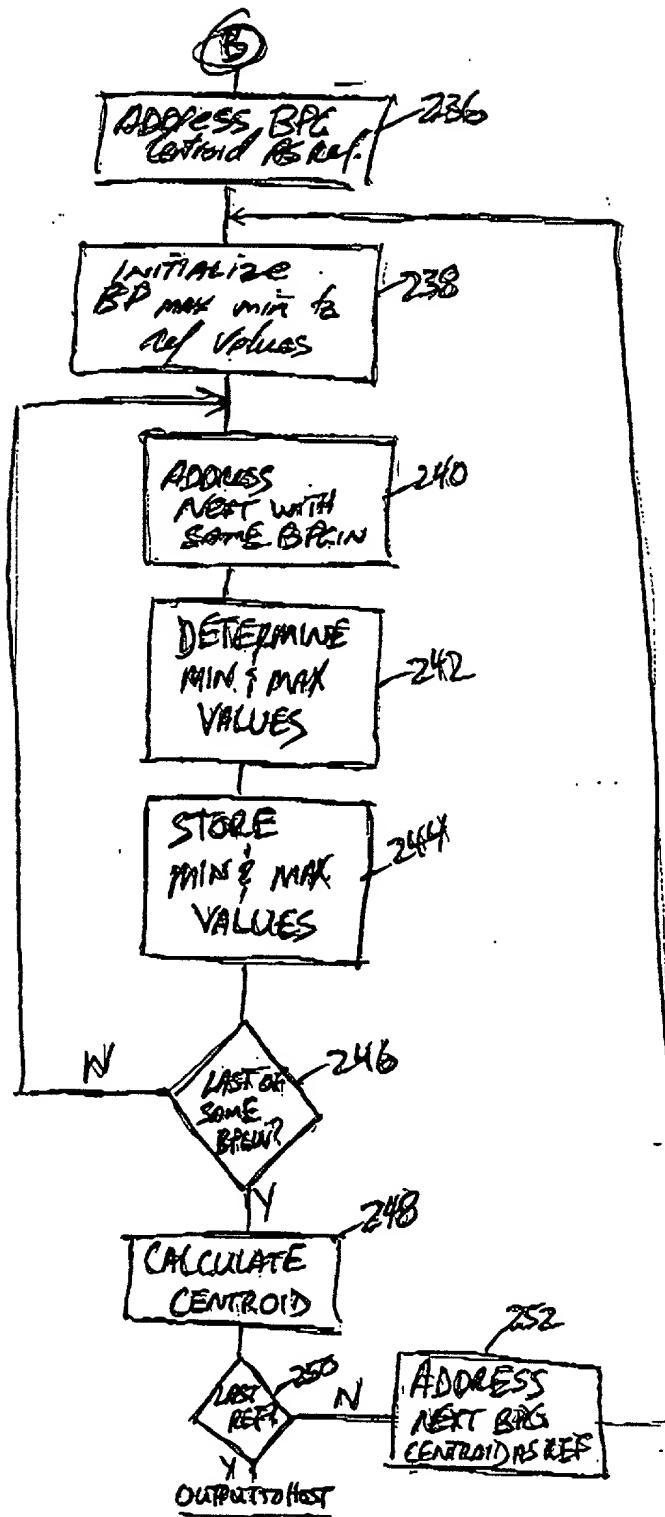
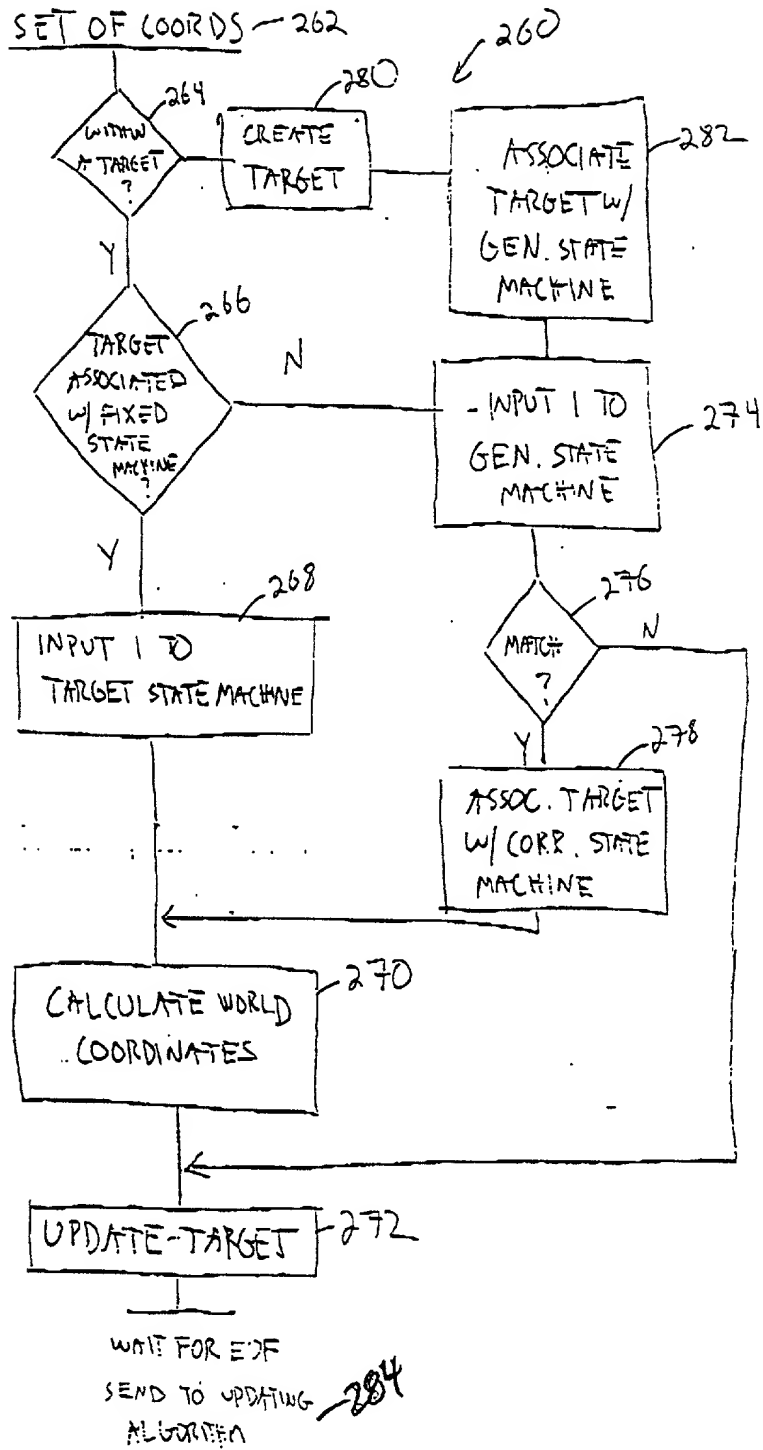


Fig. 13B



HOST-

Updating Algorithm

290

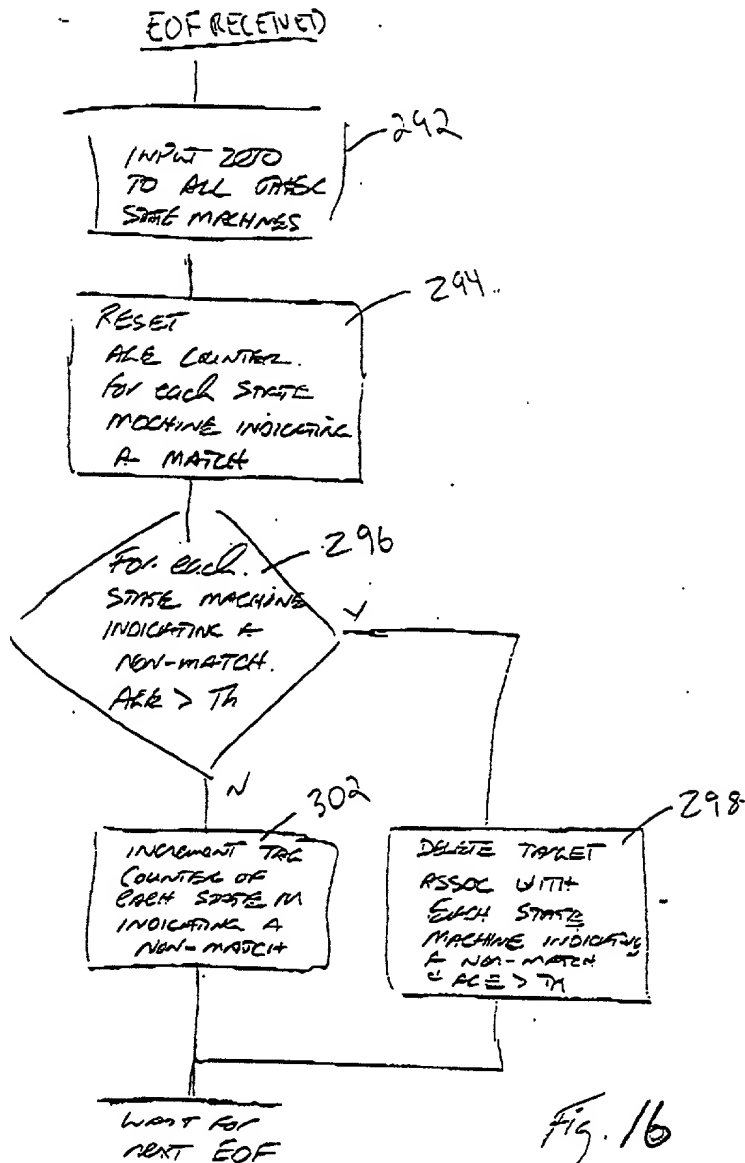


Fig. 16